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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute f							Application Num	ber	09/823,948		
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EXAMINER INITIALS	Cite No.	U.S NUMBE	. Patent Document R Kind C (if kno			Name of Patentee or a of Cited Docum		Date o	f Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	r
BM	BA	5,609,	239		Schl	ecker		3/11/	97		
BIM	ВВ	5,670,	034		Low	ery		9/23/	97		
BULL	ВС	5,744,	019		Ang			4/28/	98		
TSIM	BD	5,747,	098		Larse	on		5/5/9	8		
BIM	BE	5,776,	327		Botts	s et al.		7/7/9	8		
Bun	BF	5,788,	829		Joshi	i et al.	·	8/4/9	8		
BIN	BG	5,843,	296		Gree	nspan		12/1/9	98		
BUN	вн	5,904,827			Reynolds			5/18/	/18/99		
BUL	BI	5,932,077			Reynolds			8/3/9	8/3/99		
BUL	BJ	5,985,126			Bleck et al.			11/16	1/16/99		
BM	BK	6,001,	6,001,235		Arken et al.			12/14	/99		
BUM	BL	6,080,	291		Woodruff et al.			6/27/	6/27/00		
BIM	ВМ	6,139,	712		Patton et al.		10/31	/00			
BIM	BN	6,156,	167		Patton et al.		12/5/00				
BULL	ВО	6,303,	010		Woodruff et al.			10/16	/01		
BUL	BP	6,309,	520		Woodruff et al.		10/30/01				
BIM	BQ	6,309,	524		Woodruff et al.		10/30/01				
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EXAMINER INITIALS	Cite No.	Office	-	ment Kind Co (if knov			ntee or Applicant Document		Oate of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
BIM	BR	WO	99/25904		A	Novellus System	ıs, Inc.	5	/27/99		\sqcap
3111	BS	wo	99/25905		Α	Novellus System	is, Inc.	5	/27/99		П
BIM	ВТ	wo	00/03072		A	Semitool, Inc.		1.	/20/00		П
BIN	BU	wo				Applied Materia	ls, Inc.	6	/8/00		
		(OTHER PR	IOR	RAR	T-NON PATEN	NT LITERAT	URE 1	DOCUMENT	S	
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*EXAMINER INITIALS	Cite No.	U.S. Patent Do NUMBER	Cument Kind Co (if know		Name of Patentee or of Cited Docur		Date of	Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BUM	AA	09/386,558	v	Wo	odruff et al.		Filed	3/31/99	
TAM	AB	09/717,927	~	Bat	Z		Filed	11/20/00	
Bu	AC	4,137,867		Aig	0		2/6/79		
BLM	AD	4,246,088		Mu	rphy et al.		1/20/8	1	
BIM	AE	4,259,166		Wh	itehurst		3/31/8	1	
31H	AF	4,304,641		Gra	ndia et al.		12/8/8	1	•
BIM	AG	4,341,629		Uhi	inger		7/27/8	2	
FRAM	AH	4,422,915		Wie	elonski et al.		12/27/	83	
BIM	AI	4,466,864		Bac	on et al.		8/21/8	4	
BIM	AJ	4,576,685		Go	fredo et al.		3/18/8	6	
BIM	AK	4,685,414		DiF	lico		8/11/8	7	
BIM	AL	4,913,085		Völ	nringer et al.		4/3/90		
BIM	AM	5,135,636		Yee	et al.		8/4/92		
BIM	AN	5,139,818		Ma	nce		8/18/9	2	
731M	AO	5,227,041		Bro	gden et al.		7/13/9	3	
TAM	AP	5,271,953		Litt	eral		12/21/	93	
BIM	AQ	5,310,580		O'S	ullivan et al.		5/10/9	4	<u>-</u>
BIM	AR	5,344,491		Kat	ou		9/6/94		
TAM	AS	5,389,496		Cal	vert et al.		2/14/9	5	
731M	AT	5,441,629		Kos	aki	-	8/15/9	5	
73UM	AU	5,443,707		Мо	ri 		8/22/9	5	
BUM	AV	5,447,615		Ishi	da		9/5/95		
BIM	AW	5,522,975		And	lricacos et al.		6/4/96		
BIM	AX	5,550,315		Sto	rmont		8/27/9	6	
BIM	AY	5,597,460		Rey	nolds		1/28/9	7	
BIM	AZ	5,597,836		Had	kler et al.		1/28/9	_	
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	G INA				Examiner Name	-Erica Smith Hicks - B. Mutschler
	Sheet	1	of	1	Attorney Docket No.	291958101US

					U.S. PATENT DOCUMENTS			
Examiner Initials	Cite No.	,		clication Kind Code (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Line Where Relevant Figures Appear	s,
BUN		./09/9	944,152		Woodruff et al.	08/30/01		
BUH		09/9	998,142		Woodruff et al.	10/31/01		
BUM		5,50	00,315		Calvert et al.	03/19/96		
7311A		5,95	57,836		Johnson	09/28/99		
BIM		6,26	67,853		Dordi et al.	07/31/01		
					RECEIVED			
					OCT 0 7 2002			
					TC 1700 OREIGN PATENT DOCUMENTS			
Examiner Initial	Cite No.	Fore Office	eign Patent or A		de Name of Patentee or Applicant	Date of Publication or Filing Date	Pages, Columns, Lines, Where Relevant Figures Appear	Т
			OTHER	PRIOR A	ART-NON PATENT LITERATUR	E DOCUMENTS		
Examiner Initials	Cite No.	(t	Include name	e of the auth	or (in CAPITAL LETTERS), title of the ar ial, symposium, catalog, etc.), date, page and/or country where publish	rticle (when appropriate) e(s), volume issue num		Т
31M	,				ation for Sale of Plating Too e; Dated July 24, 1996; Pag		rate Processor	
BIM	V		TOOL, IN		gn Review for Equinox Tool 20	l; Plater Quote 9	96-135e; Dated	

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*EXAMINER:	Initial if reference considered, whether or not criteria is in confor	mance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to application(s).

COMPLETE IF KNOWN 23,948 Application Number **INFORMATION DISCLOSURE** Confirmation Number 7598 STATEMENT BY APPLICANT Filing Date March 30, 2001 Form PTO-1449 (Modified) First Named Inventor John M. Pedersen (Use several sheets if necessary) Group Art Unit **Examiner Name** Brian L. Mutschler Sheet 1 of 3 Attorney Docket No. 29195-8101US

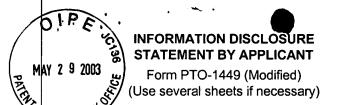
			U.S. PATENT DOCUMENTS		
Examiner Initials*	Cite No.	U.S. Patent or Application Kind Coo NUMBER (if know		Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BUM		4,137,867	Aigo	02/06/79	
731M		4,246,088	Murphy et al.	01/20/81	
731M		4,259,166	Whitehurst	03/31/81	
73/M	-	4,304,641	Grandia et al.	12/08/81	
BILL	<u>.</u> ,	4,341,629	Uhlinger	07/27/82	
BIM		4,422,915	Wielonski et al.	12/27/83	
MIN		4,466,864	Bacon et al.	08/21/84	
31M		4,576,685	Goffredo et al.	03/18/86	
BIM		4,685,414	DiRico	08/11/87	
131M		4,913,085	Vohringer et al.	04/03/90	
73/M		5,135,636	Yee et al.	08/04/92	
731M		5,139,818	Mance	08/18/92	
131M		5,227,041	Brogden et al.	07/13/93	
SIM		5,271,953	Litteral	12/21/93	
BIM		5,310,580	O'Sullivan et al.	05/10/94	
MM		5,344,491	Katou	09/06/94	RECEIVED
12VM		5,389,496	Calvert et al.	02/14/95	JUN 0 9 2003
BIM		5,441,629	Kosaki	08/15/95	
BIM		5,443,707	Mori	08/22/95	TC 1700
TSIM		5,447,615	Ishida	09/05/95	
131M		5,522,975	Andricacos et al.	06/04/96	
BM		5,550,315	Stormont	08/27/96	
BIM		5,597,460	Reynolds	01/28/97	
BIM		5,597,836	Hackler et al.	01/28/97	
MAKE		5,609,239	Schlecker	03/11/97	
31M		5,670,034	Lowery	09/23/97	

*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).

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Examiner Initials*	Cit	e		d Code	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines Where Relevant Passage Relevant Figures Appe	s or
131M		5,74	14,019		Ang	04/28/98		
MM		5,74	47,098		Larson	05/05/98		
BIM		5,77	76,327		Botts et al.	07/07/98		
13/1		5,78	38,829		Joshi et al.	08/04/98		
TIM		5,84	13,296		Greenspan	12/01/98		
MA		5,90	04,827		Reynolds	05/18/99		
ME		5,93	32,077		Reynolds	08/03/99		
3M		5,98	35,126		Bleck et al.	11/16/99		
MIKE		6,00	01,235		Arken et al.	12/14/99	RECEIN	/F
311	6,080,291		,	Woodruff et al.	06/27/00			
13/M	多			Patton et al.	10/31/00	JUN 0 9 2	:003	
BM		6,15	56,167		Patton et al.	12/05/00	TC 170	00
				FC	REIGN PATENT DOCUMENTS			
Examiner Initials*	Cite No.	Fore	eign Patent or Appli	cation Kind Code (if known		Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
13VM	V	WO	99/25904		Novellus Systems Inc.	05/27/99		
BM	~	ίνο	99/25905		Novellus Systems Inc.	05/27/99		
131M	~	WO	00/03072		Semitool, Inc.	01/20/00		
131M	J	wo	00/32835		Applied Materials	06/08/00		
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Examiner Initials*	Cite No.	(t			r (in CAPITAL LETTERS), title of the articl al, symposium, catalog, etc.), date, page(s and/or country where published.), volume issue num		Т

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Confirmation Number	7598	
Filing Date	March 30, 2001	
First Named Inventor	John M. Pedersen	
Group Art Unit	1753	
Examiner Name	Brian L. Mutschler	
Attorney Docket No.	29195-8101US	

		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	Т
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